## SEQUENCE LISTING

<110> Morsey, et al. <120> Anti-IgE Vaccines <130> PC10761A <140> <141> <160> 28 <170> PatentIn Ver. 2.1 <210> 1 <211> 30 <212> PRT <213> DOG CH3/CH4 PEPTIDE SEQUENCE <4.00> 1 Cys Ser Glu Ser Asp Pro Arg Gly Val Thr Ser Tyr Leu Ser Pro Pro Ser Pro Leu Asp Leu Tyr Val His Lys Ala Pro Lys Ile Thr <210> 2 <211> 31 <212> PRT <213> DOG CH3/CH4 PEPTIDE SEQUENCE <400> 2 Cys Leu Val Val Asp Leu Ala Thr Met Glu Gly Met Asn Leu Thr Trp 10 Tyr Arg Glu Ser Lys Glu Pro Val Asn Pro Gly Pro Leu Asn Lys <210> 3 <211> 28 <212> PRT <213> DOG CH3/CH4 PEPTIDE SEQUENCE <400> 3 Lys Asp His Phe Asn Gly Thr Ile Thr Val Thr Ser Thr Leu Pro Val 1 5 10 15

Asn Thr Asn Asp Trp Ile Glu Gly Glu Thr Tyr Tyr
20 25

<210> 4

<211> 25

<212> PRT

<213> DOG CH3/CH4 PEPTIDE SEQUENCE

<400> 4

Cys Arg Val Thr His Pro His Leu Pro Lys Asp Ile Val Arg Ser Ile

1 5 10 15

Ala Lys Ala Pro Gly Lys Arg Ala Pro 20 25

<210> 5

<211> 28

<212> PRT

<213> DOG CH3/CH4 PEPTIDE SEQUENCE

<400> 5

Leu Ser Pro Pro Ser Pro Leu Asp Leu Tyr Val His Lys Ala Pro Lys

1 5 10 15

Ile Thr Cys Leu Val Val Asp Leu Ala Thr Met Glu
20 25

<210> 6

<211> 34

<212> PRT

<213> DOG CH3/CH4 PEPTIDE SEQUENCE

<400> 6

Cys Gly Met Asn Leu Thr Trp Tyr Arg Glu Ser Lys Glu Pro Val Asn
1 5 10 15

Pro Gly Pro Leu Asn Lys Lys Asp His Phe Asn Gly Thr Ile Thr Val 20 25 30

Thr Ser

```
<210> 7
 <211> 26
 <212> PRT
 <213> DOG CH3/CH4 PEPTIDE SEQUENCE
 Thr Leu Pro Val Asn Thr Asn Asp Trp Ile Glu Gly Glu Thr Tyr Tyr
                                       10
 Cys Arg Val Thr His Pro His Leu Pro Lys
 <210> 8
 <211> 30
 <212> PRT
 <213> HUMAN CH3/CH4 PEPTIDE SEQUENCE
 Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro
                                       10
 Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr
              20
 <210> 9
<211> 33
 <212> PRT
 <213> HUMAN CH3/CH4 PEPTIDE SEQUENCE
 Cys Leu Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr
Trp Ser Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg Lys Glu
 Glu
 <210> 10
 <211> 2.7
 <212> PRT
 <213> HUMAN CH3/CH4 PEPTIDE SEQUENCE
<400> 10
```

Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu Pro Val. Gly 10 Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln 20 <210> 11 <211> 26 <212> PRT <213> HUMAN CH3/CH4 PEPTIDE SEQUENCE <400> 11 Cys Arg Val Thr His Pro His Leu Pro Arg Ala Leu Met Arg Ser Thr 10 Thr Lys Thr Ser Gly Pro Arg Ala Ala Pro <210> 12 <211> 27 <212> PRT <213> HUMAN CH3/CH4 PEPTIDE SEQUENCE <400> 12 Ser Arg Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile 1 5 10 Thr Cys Leu Val Val Asp Leu Ala Pro Ser Lys <210> 13 <211> 34 <212> PRT <213> HUMAN CH3/CH4 PEPTIDE SEQUENCE <400> 13 Gly Thr Val Asn Leu Thr Trp Ser Arg Ala Ser Gly Lys Pro Val Asn 10 15 His Ser Thr Arg Lys Glu Glu Lys Gln Arg Asn Gly Thr Leu Thr Val 25 Thr Ser

```
<210> 14
<211> 28
<212> PRT
<213> HUMAN CH3/CH4 PEPTIDE SEQUENCE
<400> 14
Thr Leu Pro Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln
                                      10
Cys Arg Val Thr His Pro His Leu Pro Arg Cys His
<210> 15
<211> 84
<212> DNA
<213> DOG CH3/CH4 NUCLEOTIDE SEQUENCE
<400> 15
tgctctgacc cgcgtggtgt tacctcttac ctgtctccgc cgtctccgct ggacctgtac 60
gttcacaaag ctccgaaaat cacc
<210> 16
<211> 93
<212> DNA
<213> DOG CH3/CH4 NUCLEOTIDE SEQUENCE
<400> 16
tgcctggtag tggacctggc caccatggaa ggcatgaacc tgacctggta ccgggagagc 60
aaagaacccg tgaacccggg ccctttgaac aag
<210> 17
<211> 87
<212> DNA
<213> DOG CH3/CH4 NUCLEOTIDE SEQUENCE
tgcaaggatc acttcaatgg gacgatcaca gtcacgtcta ccctgccagt gaacaccaat 60
gactggatcg agggcgagac ctactat
<210> 18
<211> 75
<212> DNA
<213> DOG CH3/CH4 NUCLEOTIDE SEQUENCE
```

		•				
tgcagggtga	cccacccgca	cctgcccaag	gacatcgtgc	gctccattgc	caaggcccct	60
ggtaagcgtg	cccc					75
	•					
•						
<210> 19						
<211> 84				•		
<212> DNA				•		
<213> DOG	CH3/CH4 NUC	LEOTIDE SEQU	JENCE			
				1.	·	
<400> 19				•		
ctgtctccgc	cgtctccgct	ggacctgtac	gttcacaaag	ctccgaaaat	cacctgcctg	60
	tggccaccat		_			84
				•		•
<210> 20						
<211> 102		•				
<212> DNA			en e			
	CH3/CH4 NUCI	EOTIDE SEOU	JENCE			
		_				
<400> 20					• •	•
tgcggcatga	acctgacctg	gtaccgggag	agcaaagaac	ccqtqaaccc	gggccctttg	60
	atcacttcaa					102
	*					
<210> 21	-			•	. •	
<210> 21 <211> 78	- •				. *	
*						
<211> 78 <212> DNA	CH3/CH4 NUCI	EOTIDE SEQU	JENCE			
<211> 78 <212> DNA	CH3/CH4 NUCI	EOTIDE SEQU	JENCE			
<211> 78 <212> DNA	CH3/CH4 NUCI	EOTIDE SEQU	JENCE			
<211> 78 <212> DNA <213> DOG C				cctactattg	cagggtgacc	60
<211> 78 <212> DNA <213> DOG C	tgaacaccaa			cctactattg	cagggtgacc	60 78
<211> 78 <212> DNA <213> DOG C <400> 21 accctgccag	tgaacaccaa			cctactattg	cagggtgacc	
<211> 78 <212> DNA <213> DOG C <400> 21 accctgccag	tgaacaccaa			cctactattg	cagggtgacc	
<211> 78 <212> DNA <213> DOG C <400> 21 accctgccag	tgaacaccaa			cctactattg	cagggtgacc	
<211> 78 <212> DNA <213> DOG C <400> 21 accetgecag caccegcace	tgaacaccaa			cctactattg	cagggtgacc	
<211> 78 <212> DNA <213> DOG C <400> 21 accctgccag cacccgcacc <210> 22	tgaacaccaa			cctactattg	cagggtgacc	
<211> 78 <212> DNA <213> DOG C <400> 21 accetgecag caccegeace <210> 22 <211> 90 <212> DNA	tgaacaccaa tgcccaag	tgactggatc	gagggcgaga	cctactattg	cagggtgacc	
<211> 78 <212> DNA <213> DOG C <400> 21 accetgecag caccegeace <210> 22 <211> 90 <212> DNA	tgaacaccaa	tgactggatc	gagggcgaga	cctactattg	cagggtgacc	
<211> 78 <212> DNA <213> DOG C <400> 21 accetgecag caccegeace <210> 22 <211> 90 <212> DNA	tgaacaccaa tgcccaag	tgactggatc	gagggcgaga	cctactattg	cagggtgacc	
<211> 78 <212> DNA <213> DOG C <400> 21 accctgccag cacccgcacc <210> 22 <211> 90 <212> DNA <213> DOG C <400> 22	tgaacaccaa tgcccaag ::::::::::::::::::::::::::::::::	tgactggatc	gagggcgaga			78
<211> 78 <212> DNA <213> DOG C <400> 21 accctgccag cacccgcacc <210> 22 <211> 90 <212> DNA <213> DOG C <400> 22 tgcgcggaca	tgaacaccaa tgcccaag :H3/CH4 NUCL	tgactggatc EOTIDE SEQU	gagggcgaga		cagggtgacc	78
<211> 78 <212> DNA <213> DOG C <400> 21 accctgccag cacccgcacc <210> 22 <211> 90 <212> DNA <213> DOG C <400> 22 tgcgcggaca	tgaacaccaa tgcccaag ::::::::::::::::::::::::::::::::	tgactggatc EOTIDE SEQU	gagggcgaga			78
<211> 78 <212> DNA <213> DOG C <400> 21 accctgccag cacccgcacc <210> 22 <211> 90 <212> DNA <213> DOG C <400> 22 tgcgcggaca	tgaacaccaa tgcccaag :H3/CH4 NUCL	tgactggatc EOTIDE SEQU	gagggcgaga			78

•				٠.
<212> DNA			,	
<213> DOG CH3/CH4 NUCLEOTIDE SEQ	UENCE		•	
	•			
<400> 23			•	
tgtctggtgg tggacctggc acccagcaag	gggaccgtga	acctgacctg	gtcccgggcc	60
agtgggaagc ctgtgaacca ctccaccaga	aaggaggag			99
<210> 24			•	
<211> 81	· ·		,	
<212> DNA	·			
<213> DOG CH3/CH4 NUCLEOTIDE SEQ	UENCE		4	
				•
<400> 24				
aagcagcgca atggcacgtt aaccgtcacg	tccaccctgc	cggtgggcac	ccgagactgg	60
atcgagggg agacctacca g				81
	•			
<210> 25				
<211> 78		•		
<212> DNA				
<213> DOG CH3/CH4 NUCLEOTIDE SEQU	JENCE			
			÷ .	
<400> 25			•	
tgcagggtga cccacccca cctgcccagg	gccctcatgc	ggtccacgac	caagaccagc	
ggcccgcgtg ctgccccg				78
	•		•	
<210> 26	•			
<211> 81		*		
<212> DNA				
<213> DOG CH3/CH4 NUCLEOTIDE SEQU	JENCE		* * * * * * * * * * * * * * * * * * * *	
<400> 26		×		
agecggeeca geeegttega eetgtteate	cgcaagtcgc	ccacgatcac	ctgtctggtg	60
gtggacctgg cacccagcaa g		<u>-</u>	,	81
			•	
			• • •	
<210> 27			•	
<211> 102		•		
<212> DNA				÷
<213> DOG CH3/CH4 NUCLEOTIDE SEQU	JENCE		•	
<400> 27				
gggaccgtga acctgacctg gtcccgggcc	agtgggaagc	ctgtgaacca	ctccaccaga	60
aaggaggaga agcagcgcaa tggcacgtta	accgtcacgt	CC		10

<210> 28	•	•	
<211> 78			
<212> DNA			
<213> DOG CH3/CH4 NUCLEOTIDE SEQUENCE	•		
<400> 28			
accetgeegg tgggeaceeg agaetggate gagggggaga	cctaccagtg	cagggtgacc	60
cacceccace tgcccagg			78